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(FILE 'HOME' ENTERED AT 10:05:36 ON 17 OCT 2011)
    FILE 'REGISTRY' ENTERED AT 10:06:40 ON 17 OCT 2011
               STRUCTURE UPLOADED
L1
               D L1
L2
               STRUCTURE UPLOADED
               D L2
L3
             0 SEA SSS SAM L1
L4
             0 SEA SSS SAM L2
L5
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L6
             0 SEA SSS FUL L2
     FILE 'STNGUIDE' ENTERED AT 10:08:23 ON 17 OCT 2011
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L7
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L8
               STRUCTURE UPLOADED
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L9
L10
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L12
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L13
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L16
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                SET DETAIL OFF
                E HYPOCHLORITE+ALL/CT
                SET LINE LOGIN
                SET DETAIL LOGIN
L18
            424 SEA SPE=ON ABB=ON PLU=ON L17 AND (HYPOCHLORITE OR "HYPOHALIT
                ES")
L19
            19 SEA SPE=ON ABB=ON PLU=ON (L17(P)AMMONIUM) AND (HYPOCHLORITE
                OR "HYPOHALITES")
                D IBIB ABS HITSTR 11-19
                D IBIB ABS HITSTR 1-10
     FILE 'STNGUIDE' ENTERED AT 10:38:19 ON 17 OCT 2011
=> d 113
L13 HAS NO ANSWERS
L13
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=> d his nofile

G1:C,H

Structure attributes must be viewed using STN Express query preparation.

G1:C,H

Structure attributes must be viewed using STN Express query preparation.

L19 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:814047 CAPLUS

DOCUMENT NUMBER: 155:145744

TITLE: Synergistic mono- and dihaloamine biocide and process

for controlling growth of microoganisms in aqueous

systems

INVENTOR(S): Mayer, Michael J.; Singleton, Freddie L.

PATENT ASSIGNEE(S): Hercules Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 8pp., Cont.-in-part of U.S.

Ser. No. 509,158.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20110159117	A1	20110630	US 2010-911463	20101025
US 7820060	B2	20101026	US 2006-509158	20060824
US 20070045199	A1	20070301		
PRIORITY APPLN. INFO.:			US 2005-711508P P	20050826
			US 2006-509158 A	2 20060824

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Synergistic mixts. of haloamines and their use to control the growth of microorganisms in aqueous systems are disclosed. The method of using the synergistic mixts. entails adding an effective amount of a monohaloamine and an effective amount of a dihaloamine to an aqueous system. The ratio of monohaloamine to dihaloamine is selected to result in a synergistic biocidal effect. Results of exemplary tests indicate monocloramine (MCA) and dichloramine (DCA) are synergistic at pH 5, 8 and 9, and that the synergism exists at a range of ratios of MCA:DCA, resp.

IT 7773-06-0, Ammonium sulfamate

RL: RCT (Reactant); RACT (Reactant or reagent)

(synergistic mono- and dihaloamine biocide and process for controlling growth of microoganisms in aqueous systems)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1333949 CAPLUS

DOCUMENT NUMBER: 153:499185

TITLE: Synergistic haloamine mixture biocides for controlling

microorganism growth in aqueous systems

INVENTOR(S): Mayer, Michael J.; Singleton, Freddie L.

PATENT ASSIGNEE(S): Hercules Inc., USA

SOURCE: U.S., 16pp.; Chemical Indexing Equivalent to

146:245860 (WO)

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.								APPLICATION NO.					DATE				
	7820				В2		2010			US	2006-	5091	58		2	0060	824
US	2007	0045	199		A1		2007										
AU	2006	2829	73		A1		2007				2006-					0060	
CA	2620	291			AΙ		2007				2006-					0060	
-	2007		-				2007			WO	2006-	JS33	155		2	0060	824
WO	2007		-		_		2007										
	W:										BG,						
											, EC,						
											, IS,						
											, LV,						
											, OM,						
											, SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
							VN,										
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
											, RO,						
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML	, MR,	ΝE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ	, TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑP,	EA,	ΕP	, OA						
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	2006						2011	0517			2006-				2	0060	824
	2008				Α		2008	0409		MX	2008-	2619			2	0800	225
KR	2008	0421	42		A		2008	0514		KR	2008-	7007	193		2	0800	325
ИО	2008	0014	78		A		2008	0520			2008-				_	0800	326
ZA	2008	0026			A		2009	1028			2008-					0800	326
CN	1012	9662	1		A		2008	1029		CN	2006-	8003	9871		2	0800	425
US	2011	0159	117		A1		2011	0630		US	2010-	9114	63		2	0101	025
ORIT	Y APP	LN.	INFO	.:						US	2005-	7115	08P		P 2	0050	826
										US	2006-	5091	58		A 2	0060	824
										WO	2006-	JS33	155	1	W 2	0060	824
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

- AB Synergistic mixts. of haloamines and their use to control the growth of microorganisms in aqueous systems are disclosed. By one embodiment, an amine or ammonium source is reacted with an halogen-containing oxidant to produce a monohaloamine. The pH of the monohaloamine is adjusted to achieve the desired ratio of monohaloamines to dihaloamines, to result in a synergistic biocidal effect.
- IT 7773-06-0, Ammonium sulfamate
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (source for in-situ preparation of synergistic haloamine biocides)
- RN 7773-06-0 CAPLUS
- CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

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O ||
HO-S-NH<sub>2</sub> ||
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● NH3

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1041205 CAPLUS

DOCUMENT NUMBER: 153:279253

TITLE: Antifouling, antimicrobial composition of polymer(s),

ammonium salt(s) and a chlorine source

INVENTOR(S): Ramesh, Manian; Doucette, Cathy C.; Cooper, Andrew J.

PATENT ASSIGNEE(S): Nalco Company, USA SOURCE: PCT Int. Appl., 20pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

	PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
,	WO 2010	0938	 47		A1	_	2010	0819		wo 2	010-	 US23	 983		2	0100	212	
	W:	ΑE,	AG,	AL,	AM,	AO,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	
		CA,	CH,	CL,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	
		ES,	FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	
		KE,	KG,	KM,	KN,	KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	
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		SN,	TD,	ΤG,	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	
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	US 20090214672				, , , , ,				7 US 2009-371162					20090213				
PRIOR	ORITY APPLN. INFO.:								US 2009-371162					A 20090213				
									US 2006-617318				18	A2 20061228				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

- AB An antimicrobial composition of polymer(s), ammonium salt(s) and a chlorine source is described. The compns. are prepared by mixing a polymer-ammonium salt formulation comprising one or more polymers and one or more ammonium salts with alkali and a chlorine source in a molar ratio of chlorine (as C12) to ammonium ion of about 1:10 to about 10:1 and methods of using the composition to control biofouling of aqueous systems.
- IT 15214-89-8D, 2-Acrylamido-2-methylpropanesulfonic acid, copolymers

RL: MOA (Modifier or additive use); USES (Uses)

(antifouling antimicrobial composition of polymer(s), ammonium $\operatorname{salt}(s)$ and chlorine source)

RN 15214-89-8 CAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]- (CA INDEX NAME)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1326697 CAPLUS

DOCUMENT NUMBER: 151:513677

TITLE: Cooling means for making rooms low humidity

INVENTOR(S): Ito, Toshio; Ito, Kaori; Ito, Dabi

PATENT ASSIGNEE(S): Immunovax Japan Y. K., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 7pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009250013	A	20091029	JP 2008-117831	20080402
PRIORITY APPLN. INFO.:			JP 2008-117831	20080402

AB The invention provides room cooling apparatus which can make room at low humidity without using petroleum energy and without emitting CO2. Fibrous materials impregnated with deliquescent materials are used as walls for rooms.

IT 7773-06-0, Ammonium sulfamate

RL: TEM (Technical or engineered material use); USES (Uses)

(cooling means for making rooms low humidity by using deliquescent material-impregnated fibrous material as walls)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1048627 CAPLUS

DOCUMENT NUMBER: 151:281638

TITLE: Antifouling, antimicrobial composition of polymer(s),

ammonium salt(s) and a chlorine source

INVENTOR(S): Ramesh, Manian; Doucette, Cathy C.; Cooper, Andrew J.

PATENT ASSIGNEE(S): Nalco Co., USA

SOURCE: U.S. Pat. Appl. Publ., 8 pp., Cont.-in-part of U.S.

Ser. No. 617,318.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PAT	PATENT NO.			KIND DATE			APPLICATION NO.				DATE							
US	2009	 0214	 672		A1	_	2009	0827		 US 2	 009-	 3711	 62		20090213			
US	2008	0160	104		A1		2008	0703		US 2	006-	6173	18		2	0061	228	
AR	7556	7			A1		2011	0420		AR 2	010-	1003	48		2	0100	209	
WO	2010	0938	47		A1		2010	0819		WO 2	010-	US23	983		2	0100	212	
	W:	ΑE,	AG,	AL,	AM,	AO,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	
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		ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	
		KΕ,	KG,	KM,	KN,	KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An antimicrobial composition of polymer(s), ammonium salt(s) and a chlorine source is described. The compns. is prepared by mixing a polymer-ammonium salt formulation comprising one or more polymers and one or more ammonium salts with alkali and a chlorine source in a molar ratio of chlorine (as C12) to ammonium ion of about 1:10 to about 10:1 and methods of using the composition to control biofouling of aqueous systems.

IT 15214-89-8D, 2-Acrylamido-2-methylpropanesulfonic acid,

copolymers

RL: MOA (Modifier or additive use); USES (Uses)

(antifouling antimicrobial composition of polymer(s), ammonium salt(s) and chlorine source)

RN 15214-89-8 CAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]- (CA INDEX NAME)

L19 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:852413 CAPLUS

DOCUMENT NUMBER: 151:155596

TITLE: Disinfection of water in aqueous system such as cooling water system or cold/warm water system

INVENTOR(S):
Inoue, Hiroaki; Ishima, Tomoo

PATENT ASSIGNEE(S): Aquas Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009154113	А	20090716	JP 2007-336079	20071227
PRIORITY APPLN. INFO.:			JP 2007-336079	20071227

AB The disinfection system suitable for cooling water or cold/warm water systems utilizes poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)e thylene dichloride] and hypohalites stabilized with sulfamates as disinfectants. The disinfectants show long-lasting sterilization effects and durably suppress slime generation.

IT 13845-18-6, Sodium sulfamate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hypohalites stabilized with, disinfectants; water disinfection using quaternary ammonium polymers and hypohalites stabilized with sulfamates)

RN 13845-18-6 CAPLUS

CN Sulfamic acid, sodium salt (1:1) (CA INDEX NAME)

Na

AUTHOR(S):

CORPORATE SOURCE:

L19 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:364445 CAPLUS

DOCUMENT NUMBER: 146:487184

TITLE: N-Chlorotaurine and ammonium chloride: An antiseptic

preparation with strong bactericidal activity Gottardi, Waldemar; Arnitz, Roland; Nagl, Markus Department of Hygiene, Microbiology and Social

Medicine, Division of Hygiene and Medical

Microbiology, Innsbruck Medical University, Innsbruck,

A-6020, Austria

SOURCE: International Journal of Pharmaceutics (2007),

335(1-2), 32-40

CODEN: IJPHDE; ISSN: 0378-5173

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The bactericidal activity of the endogenous antiseptic N-chlorotaurine (NCT) is significantly enhanced in the presence of ammonium chloride which induces the formation of monochloramine (NH2Cl) whose strong bactericidal activity is well known. In this study the properties of NCT plus ammonium chloride have been investigated. The reaction of active chlorine compds.

like chloramine-T (N-chlorotoluene-sulfonamide sodium), chloroisocyanuric acid derivs., hypochlorites (NaOCl, CaOCl2) with ammonium chloride did not stop at the stage of monochloramine, and the pungent smelling byproducts di- and trichloramine, NHCl2 and NCl3, were also formed. This was not the case with NCT where only monochloramine was generated. The equilibrium constant of the reaction of NCT with ammonium was found to be K NXCT/NH4=[N H 2 Cl] [Tau] / [NCT] / [N H 4+] / f 2a = (5.8 \pm 1.2) E - 3, which allows to estimate the equilibrium concentration of

solns. of NCT and ammonium chloride. At concns. each ranging between 0.01% and 1.0% it comes to [NH2Cl] = 3.5-254 ppm. As an unexpected result the monochloramine containing formulation turned out to be most stable in plain water without buffer additives. Quant. killing assays revealed complete inactivation of 106 to 107 CFU/mL of seven bacterial strains by 0.1% NCT plus 0.1% ammonium chloride within 5 min, while with plain 0.1% NCT an incubation time of 2-4 h was needed to achieve the same effect. The highly significant increase of bactericidal activity (200-300-fold) could be assigned to the presence of monochloramine which could be isolated by vacuum distillation Aqueous solns. of NCT and ammonium chloride provide

a highly effective and well tolerable antiseptic preparation appropriate to a treatment cycle of at least 1 mo if stored in the refrigerator.

IT 144557-26-6, N-Chlorotaurine sodium

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(N-Chlorotaurine and ammonium chloride as antiseptic preparation with strong bactericidal activity)

RN 144557-26-6 CAPLUS

monochloramine in aqueous

CN Ethanesulfonic acid, 2-(chloroamino)-, sodium salt (1:1) (CA INDEX NAME)

 $ClnH-CH_2-CH_2-SO_3H$

● Na

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD

(8 CITINGS)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:228022 CAPLUS

DOCUMENT NUMBER: 146:245860

TITLE: synergistic haloamine mixture biocides for controlling

microorganism growth in aqueous systems

INVENTOR(S): Mayer, Michael J.; Singleton, Freddie L.

PATENT ASSIGNEE(S): Hercules Incorporated, USA

SOURCE: PCT Int. Appl., 39pp.; Chemical Indexing Equivalent to

153:499185 (US)

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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20070301 WO 2006-US33155
    WO 2007025087 A2
WO 2007025087 A3
                                                                  20060824
                            20070607
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                                                                  20080425
                                                            P 20050826
PRIORITY APPLN. INFO.:
                                           US 2005-711508P
                                           US 2006-509158
                                                              A 20060824
                                           WO 2006-US33155
                                                               W
                                                                  20060824
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Synergistic mixts. of haloamines and their use to control the growth of microorganisms in aqueous systems are disclosed. By one embodiment, an amine or ammonium source is reacted with an halogen-containing oxidant to produce a monohaloamine. The pH of the monohaloamine is adjusted to achieve the desired ratio of monohaloamines to dihaloamines, to result in a synergistic biocidal effect.

IT 7773-06-0, Ammonium sulfamate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(source for in-situ preparation of synergistic haloamine biocides)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:681648 CAPLUS

DOCUMENT NUMBER: 145:97989

TITLE: Biocides for controlling microbial and biofilm growth

INVENTOR(S):
Barak, Ayala

PATENT ASSIGNEE(S): A.Y. Laboratories Ltd., Israel SOURCE: U.S. Pat. Appl. Publ., 35 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.			KIND DATE			APPLICATION NO.												
		2006						2006	0713							2	0050	214	
		7837							1123										
	WO	2005	0673	80		A2		2005	0728		WO 2	005-	IL39			2	0050	112	
	WO	2005	0673	80		АЗ		2007	1108										
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
									IL,										
									MA,										
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
	TJ, TM, T						•	•	•	•	•					•			SM
	RW: BW, GH, GM, KE, LS, MW, MZ,			•	•	•	•	•	,	•	•	•							
	AZ, BY, KG, KZ, MD, RU, TJ,				,		•				,								
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									ВJ,										
									EA,			,	,	,	,	- 2,	,	,	
	ZA	2006						•	,			006-	6642			2	0050	112	
		2010																	
		2010															0100		
											US 2								
11(101	PRIORITY APPLN. INFO.:										US 2						0040		
									US 2004-536853P					P 20040114					
											WO 2005-IL39 US 2005-56405								
N C C T C	ACSICNMENT HISTORY FOR					IIS PATENT AVATLAR													

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB There are provided methods for controlling microbial or biofilm growth, comprising mixing a hypochlorite oxidant and at least one nitrogen-containing compound or salt, such as ammonium carbamate. Apparatus for

practicing the methods are also provided.

IT 7773-06-0, Ammonium sulfamate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(biocides for controlling microbial and biofilm growth containing)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

L19 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:673002 CAPLUS

DOCUMENT NUMBER: 143:148208

TITLE: Biocides from mixing hypochlorite oxidant and

nitrogen compound and apparatus for their application

APPLICATION NO.

DATE

INVENTOR(S):
Barak, Ayala

PATENT ASSIGNEE(S): A.Y. Laboratories Ltd., Israel

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

KIND DATE

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.

									AFFLICATION NO.					DATE				
WO	WO 2005067380					A2 20050728 A3 20071108 L, AM, AT, AU, AZ,				WO 2	005-	 IL39			2	0050	112	
WO										DD	DC	DD	DIJ	DV	DE	O 7	OII	
	₩:																	
							DE,											
							ID,											
							LV,											
							PL,											011
	D						TZ,											SM
	RW:						MW,											
							RU,											
							GR,											
							BF,				CI,	CM,	GA,	GN,	GQ,	GW,	ML,	
	0005						AP,											
AU	2005	2044	92		Al		2005	0728		AU 2	005-	2044	92		2	0050	112	
AU	2005	2044	92		B2		2009	1105							_			
	2553				A1		2005 2006	0728		CA 2	005-	2553	323		2	0050	112	
EP	1711																	
	R:						ES,											
						FΙ,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,	
			HR,															
	2007						2007			JP 2	006-	5485	79		2	0050	112	
	4705						2011											
CN	1011	5121	9		A		2008			CN 2	005-	8000	8116		2	0050	112	
CN	1011	5121	9		В		2011											
NZ	5489 2006 2006 7837	67			А		2009			NZ 2	005-	5489	67		2	0050	112	
ZA	2006	0066	42		А		2010				000	0012			_	0000		
US	2006	0154	978		A1		2006			US 2	005-	5640	5		2	0050	214	
US	7837	883			В2		2010											
0.5	2007	0233	<i>J J U</i>		Δı		2007			US 2								
	2010						2010			US 2								
	2010				A1		2010	1209		US 2								
IORIT	Y APP	LN.	INFO	.:						US 2								
										US 2	004-	5368	51P		P 2	0040	114	
										US 2 US 2 WO 2	004-	5368	52P		P 2	0040	114	
										US 2	004-	5368	53P		P 2	0040	114	
										WO 2	005-	IL39			W 2	0050	112	
										US 2	005-	5640	5		A1 2	0050	214	
SIGNM	ENT H	ISTO	RY F	OR U	S PA	TENT	' AVA	ILAB:	LE I	N LS	US D	ISPL	AY F	ORMA	Τ			

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:148208

AB Methods for controlling microbial or biofilm growth comprise mixing a hypochlorite oxidant and at least one nitrogen-containing compound or salt thereof to form a biocide, and applying the biocide with an apparatus provided. The biocide may be formed by mixing a salt of the formula Yx-[NH2R3R4]+x, where Yx- is a basic form of an acid Y that contains, e.g., an amide moiety or a a sulfimide moiety and [NH2R3R4]+x is an acidic form of a base

wherein R3 and R4 = independently H or C1-8 alkyl or R3 and R4, together with the N atom, form an optionally substituted heterocyclic ring. The medium to which the biocide is applied may be pulp and paper factory process water, cooling tower water, wastewater, reclaimed wastewater, clay slurries, starch slurries, sludge, soil, colloidal suspensions, irrigation water, and liqs. having a high reducing capacity.

IT 7773-06-0, Ammonium sulfamate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(controlling microbial or biofilm growth by mixing hypochlorite and nitrogen compound and apparatus for applying biocides to media) 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

$$\begin{array}{c} \circ \\ \parallel \\ \text{HO-} \\ \text{S-} \\ \parallel \\ \circ \end{array}$$

RN

● NH3

L19 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:182588 CAPLUS

DOCUMENT NUMBER: 142:266211

TITLE: Method of controlling microbial fouling in aqueous

system

INVENTOR(S): Shim, Sang-Hea; Kim, Chung-Soo PATENT ASSIGNEE(S): Acculab Co., Ltd., S. Korea

SOURCE: PCT Int. Appl., 37 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT		KIND DATE			APPLICATION NO.						DATE					
	WO 200!	50191	 17		A1	_	2005	0303	,	WO 2	004-	 US26	 044		2	0040	311
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KΖ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NA,	NI,	NO,
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW	: BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,
		SN,	TD,	ΤG													
	KR 200	50159	10		Α		2005	0221		KR 2	003-	5657	1		2	0030	314
PRIOR	ORITY APPLN. INFO.:									KR 2	003-	5657	1		A 2	0030	314
AB	Disclos	meth	thod of controlling			ng microbial fouling in					in a	an aqueous sys					
	pH 6.5	to 9	.5.	whic.	h is	cap	able	of (effe	ctiv	elv	inhi	biti.	na s	lime	atta	achme

AB Disclosed is a method of controlling microbial fouling in an aqueous system of pH 6.5 to 9.5, which is capable of effectively inhibiting slime attachment to a submerged surface simultaneously with killing microorganisms by adding to the aqueous system predetd. amts. of a chlorine biocide, a sulfamate ion source and a water-soluble bromide ion source.

IT 7773-06-0, Ammonium sulfamate

RL: NUU (Other use, unclassified); USES (Uses)

(method of controlling microbial fouling in aqueous system)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● инз

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2001:736859 CAPLUS

DOCUMENT NUMBER: 135:272891
TITLE: Preparation of

3-hydroxy-2-imino-1(2H)-pyridinesulfonic acid from

furfural

Mitsui, Yasutaka INVENTOR(S):

PATENT ASSIGNEE(S): Koei Chemical Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001278862	А	20011010	JP 2000-89785	20000328
PRIORITY APPLN. INFO.:			JP 2000-89785	20000328

OTHER SOURCE(S): CASREACT 135:272891

3-Hydroxy-2-imino-1(2H)-pyridinesulfonic acid (I) is prepared by oxidation of 1 mol furfural and subsequent treatment with 3.5-6 mol sulfamic acid or its salt at pH 1.05-1.70. Thus, furfural was oxidized by NaBrO3 at -6 $^{\circ}$ to $-4\,^{\circ}$ in aqueous HCl and treated with aqueous ammonium sulfamate to give 53.4% I.H2O.

ΤT 7773-06-0, Ammonium sulfamate

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 3-hydroxy-2-imino-1(2H)-pyridinesulfonic acid from furfural)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

SOURCE:

L19 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1997:182331 CAPLUS

DOCUMENT NUMBER: 126:258880

ORIGINAL REFERENCE NO.: 126:49964h, 49965a

TITLE: Effect of polaprezinc on development of mucosal lesions and changes in transmucosal potential

difference (PD) induced by monochloramine in rat

stomachs

Nishiwaki, Hidekazu; Kitamura, Motohiro; Kato, AUTHOR(S):

Shinichi; Takeuchi, Koji

CORPORATE SOURCE: Dep. Pharmacol. Experimental Therapeutics, Kyoto

Pharmaceutical Univ., Kyoto, 607, Japan Therapeutic Research (1997), 18(2), 615-622

CODEN: THREEL; ISSN: 0289-8020

PUBLISHER: Raifu Saiensu Shuppan K.K.

DOCUMENT TYPE: Journal LANGUAGE: Japanese

The effects of polaprezinc on the mucosal ulcerogenic and PD responses induced by ammonia (NH4OH) and monochloramine (NH2Cl) in rat stomachs were determined Oral administration of NH4OH at 1800 mM produced severe hemorrhagic lesions in the stomach but had no effect at 120 mM in unanesthetized rats. When NH4OH at 120 mM was administered together with the same concentration of

sodium hypochlorite (NaClO) to generate NH2Cl, severe damage was provoked in the stomach. Polaprezinc (10.apprx.60 mg/kg) given p.o. showed a dose-dependent inhibition against gastric lesions induced by both NH4OH and NH2Cl, and the effect was significant at 30 mg/kg or greater in either case. Mucosal protective effect of polaprezinc was similarly observed against gastric lesions induced by 120 mM NH4OH under ischemic conditions induced by bleeding (10 mL/kg) in urethane anesthetized rats. These lesions induced by NH4OH plus ischemia were completely inhibited by prior i.g. application of taurine (125 mg/kg). On the other hand, both NH4OH (600 mM) and NH2Cl (20 mM) caused a marked reduction of PD after i.g. application for 10 min, and after removal of the irritant the reduced PD was slightly recovered in case of NH4OH. Prior application of polaprezinc dose-dependently prevented the reduced PD response to both NH4OH and NH2Cl and tended to promote the PD recovery only after application of NH4OH. Intragastric application of NH4OH (120 mM) under ischemic conditions similarly caused a marked PD reduction, and this PD response was significantly prevented by either taurine or polaprezinc. These results suggest that (1) both exogenous and endogenous NH2Cl damages the rat gastric mucosa, (2) polaprezinc protects the stomach against injury caused by NH2Cl as well as NH4OH, and (3) this agent may also have beneficial influences on the mucosal restitution process. The mechanisms underlying these actions of polaprezinc remain unknown.

IT 107-35-7, Taurine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(polaprezinc or taurine effect on development of mucosal lesions and changes in transmucosal p.d. induced by monochloramine or ammonium hydroxide in rat stomach)

RN 107-35-7 CAPLUS

CN Ethanesulfonic acid, 2-amino- (CA INDEX NAME)

 $_{\rm H_2N-CH_2-CH_2-SO_3H}$

L19 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1990:83178 CAPLUS

DOCUMENT NUMBER: 112:83178

ORIGINAL REFERENCE NO.: 112:14095a,14098a

TITLE: Reportable quantity adjustments; delisting of ammonium

thiosulfate

CORPORATE SOURCE: United States Environmental Protection Agency,

Washington, DC, 20460, USA

SOURCE: Federal Register (1989), 54(155), 33426-84, 14 Aug

1989

CODEN: FEREAC; ISSN: 0097-6326

DOCUMENT TYPE: Journal LANGUAGE: English

AB Under the Federal Comprehensive Environmental Response, Compensation, and Liability Act, the EPA is promulgating final reportable quantities (RQ) for 258 hazardous substances and hazardous waste streams. NH4 thiosulfate is removed from the list of hazardous substances since the median lethal concentration is well above 500 mg/L for aquatic toxicity. Also included in

final rule is replacement of the registered trademark Gelthane with the generic name difocal, as several companies manufacture this substance.

IT 7773-06-0, Ammonium sulfamate

RL: POL (Pollutant); OCCU (Occurrence)

(environmental pollution from release of, reportable quantity for, in USA)

● NH3

L19 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1989:97592 CAPLUS

DOCUMENT NUMBER: 110:97592

ORIGINAL REFERENCE NO.: 110:16109a,16112a

TITLE: Color-safe peroxide bleach compositions Sugawara, Hiroshi; Toma, Yoji; Yokoi, Kenji Lion Corp., Japan INVENTOR(S):

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 8 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63161088	A	19880704	JP 1986-310566	19861224
JP 07081159	В	19950830		

JP 1986-310566 PRIORITY APPLN. INFO.: 19861224

The H2O2 (or precursor)-based bleaches working effectively at low temperature contain sulfonic acid and/or water-soluble salt and hypohalo acid and/or water-soluble salt as activators. A solution of 20 g each of tablets from Na percarbonate 35.5, Na dodecylbenzenesulfonate 2.0, and Na2CO3 to 100% and tablets from Na sulfamate 40.0, Ca hypochlorite 24.5, Na C18 lpha-olefinsulfonate 0.5, and Na2SO4 to 100% in 2 L water showed color-safe bleaching at 5° as well as at 20° .

7773-06-0, Ammonium sulfamate

RL: CAT (Catalyst use); USES (Uses)

(activators, for color-safe peroxide bleaches)

7773-06-0 CAPLUS RN

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

1988:572349 CAPLUS ACCESSION NUMBER:

109:172349 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 109:28573a, 28576a

TITLE: Utility of nitrogen compounds as inhibitors of pulp

degradation in hypochlorite stage of bleaching

AUTHOR(S): Rao, Venkoba; Murthy, N. V. S. R.; Annam, Raju P. V.;

Maheshwari, H. K.

CORPORATE SOURCE: Andhra Pradesh Paper Mills Ltd., Rajahmundry, India

IPPTA (1988), 25(1), 10-14SOURCE:

CODEN: IPPTDO; ISSN: 0379-5462

DOCUMENT TYPE: Journal LANGUAGE: English

Nitrogenous compds. are helpful to a certain extent in decreasing cellulose degradation when they are used in small quantities (0.1-0.2%) in the hypochlorite stage of CEH bleaching of bamboo-mixed tropical hardwood pulp. The degree of effectiveness depends upon the nature of the N compound and the pulps. Among urea, ammonium chloride, ammonium sulfamate, and

melamine, ammonium sulfamate gives better results, comparable to those of sulfamic acid. This indicates that the sulfamic acid functional group is more active in controlling the cellulose degradation without hindering the brightness development. To retain the benefits achieved in Hypo-I stage, the additives should be added along with the normal caustic buffer in Hypo-II stage in a CEHH sequence bleaching.

7773-06-0, Ammonium sulfamate ΙT

RL: RCT (Reactant); RACT (Reactant or reagent)

(degradation inhibitors, in hypochlorite bleaching of cellulose pulp)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

1973:455121 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 79:55121 ORIGINAL REFERENCE NO.: 79:8895a,8898a

TITLE: Selected problems of pulp bleaching Baczynska, Krystyna; Rutkowski, Jan AUTHOR(S):

CORPORATE SOURCE: Inst. Cellul. Pap., Lodz, Pol.

Zellstoff und Papier (Leipzig) (1973), 22(5), 131-9 CODEN: ZLPAAL; ISSN: 0044-3867 SOURCE:

DOCUMENT TYPE: Journal LANGUAGE: German

In the bleaching of birch, pine, and poplar sulfate pulps, decreased waste water pollution, prevention of carbohydrate depolymn., and prevention of the secondary yellowing occurring during hypochlorite bleaching were achieved by raising the temperature, decreasing the alkalinity, using chlorine dioxide [10049-04-4] in the bleaching process, and adding an inhibitor, e.g. amidosulfonic acid [5329-14-6], ammonium sulfate [7783-20-2], urea [57-13-6], or Sapogen T [97-80-3]. Optimum bleaching of the pulps in acid medium in a 2nd stage was accomplished by the use of hydrogen peroxide [7722-84-1], with cellulose [9004-34-6] depolymn. prevented by the addition of magnesium carbonate [546-93-0] or magnesium oxide [1309-48-4]. A significant decrease in pulp viscosity in the acid stage bleaching process occurred when the pulp was pretreated with sulfur dioxide [7446-09-5].

L19 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1966:105644 CAPLUS

DOCUMENT NUMBER: 64:105644
ORIGINAL REFERENCE NO.: 64:19968d-e

TITLE: Effect of ammonium sulfamate in pulp bleaching

AUTHOR(S): Tokunaga, Shigeo; Kitahori, Tojiro; Hayashi, Yoshihiko

CORPORATE SOURCE: Kanzaki Paper Mfg. Co. Ltd., Amagasaki, Japan

SOURCE: Kami Pa Gikyoshi (1966), 20(4), 202-6

CODEN: KAGIAU; ISSN: 0022-815X

DOCUMENT TYPE: Journal LANGUAGE: Japanese

AB Addition of 5% (based on active Cl in NaClO) of NH4OSO2NH2 to the NaClO stage, in a 3-stage bleaching system (Cl2-NaOH-NaClO) of sulfite pulp

favored the bleaching effect without decomposition of cellulose. The reaction

rate delay of NaClO caused by addition of NH4OSO2NH2 was increased by

increasing the temperature or extending the bleaching time. This treatment

gave

the same quality of bleached pulp as obtained by 4-stage bleaching, i.e. C12-NaOH-NaClO-ClO2. In multi-stage bleaching of kraft pulp, NH4OSO2NH2 was less effective, but suitable for semi-bleaching of kraft pulp.

IT 7773-06-0P, Ammonium sulfamate

RL: PREP (Preparation)

(in paper pulp bleaching with chlorine and NaClO)

RN 7773-06-0 CAPLUS

CN Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

● NH3

L19 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1962:68672 CAPLUS

DOCUMENT NUMBER: 56:68672

ORIGINAL REFERENCE NO.: 56:13294f-i,13295a-f

TITLE: Interpretation with respect to warning, caution, and

antidote statements required to appear on labels of

economic poisons

AUTHOR(S): Anon.

SOURCE: Federal Register (1962), 27, 2267-77, 9 Mar 1962

CODEN: FEREAC; ISSN: 0097-6326

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

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Required label statements under the Fed. Insecticide, Fungicide, and
AΒ
     Rodenticide Act are given for: acetone,
     3-(2-acetonylfurfuryl)-4-hydroxycoumarin (Fumarin), acrylonitrile, aldrin
     (95% hexachlorohexahydro-endo, exodimethanonaphthalene), allethrin, allyl
     alc., \alpha-naphthylthiourea, NH4 sulfamate, (SbO)K tartrate (tartar
     emetic), As compds., azobenzene, benzene, benzene hexachloride,
     bis(chlorophenyl)-2,2,2-trichloroethanol (Kelthane), (Bu3Sn)20 and salts,
     H3BO3, Cd formulations, Ca cyanamide, captan, 2-carbomethoxy-1-methylvinyl
     di-Me phosphate (\alpha-isomer) (Phosdrin), CS2, CC14, chlorates,
     chlordan, 2chloro-4-ethylamino-6-isopropylamino-s-triazine (Atrazine),
     CHCl3, p-chlorophenyl Ph sulfone, chloropicrin, coal tar creosote, coal
     tar disinfectants, Cu compds., oil of citronella, cryolite (Na
     fluoroaluminate), cyanide, Dalapon (2,2-dichloropropionic acid) and salts,
     demeton (0,0-di-Et\ O(and\ S)-2-(ethylthio)ethyl\ phosphorothioates,
     1,2-dibromo2,2-dichloroethyl di-Me phosphate (Dibron), di-Bu succinate,
     dichlone (dichloronaphthoquinone), dichlorodiphenyldichloroethane, DDT,
     2,4-D, 2,4-dichlorophenyl benzenesulfonate,
     bis(p-chlorophenyl)methylcarbinol, dichloropropane-dichloropropane and
     related C3 hydrocarbons (D-D mixture), dieldrin, O,O-di-Et
     O-(2-isopropyl-6-methyl4pyrimidinyl) phosphorothioate (Diazinon),
     diethyldiphenyldichloroethane (Perthane), N, N-diethyltoluamide,
     1,2dihydropyridiazine-3,6-dione (maleic hydrazide), 0,0-diMe S - (p -
     chlorophenylthiomethyl) phosphorodithioate (methyl trithion), 0,0-di-Me
     O-(p-nitrophenyl) thiophosphate, O,O-di-Me
     S-(4-oxo-1,2,3-benzotriazin-3(4H)-yl-methyl) phosphorodithioate (Guthion),
     dinitro-o-cresol, diphacinone (2-diphenylacetyl-1,3-indandione) and salts,
     diPr maleate isosafrole condensate (n-propyl isomer), di-Na
     ethylenebisdithiocarbamate (Nahum), diuron (dichlorophenyldimethylurea),
     endrin (hexachloroepoxyoctahydroendo, endo-dimethanonaphthalene), ethion
     (0,0,0',0'-tetraEt S,S'-methylenebisphosphorodithioate), ferbam (ferric
     dimethyldithiocarbamate), fluorides, HCHO solns., EtBr, ethylene
     dibromide, ethylene dichloride, fenuron (phenyldimethylurea), heptachlor,
     hexachlorohexahydromethano2,4,3-benzodioxothiepin oxide (thiodan),
     hexaethyl tetra-phosphate, HCl, hypochlorites, iso-Pr
     N-(3-chlorophenyl)carbamate (CIPC), iso-Pr N-phenylcarbamate (IPC),
     2isovaleryl-1,3-indandione (PMP), kerosene sprays, limesulfur solns.,
     lindane (\alpha-isomer of benzene hexachloride), malathion (O,O-di-Me
     dithiophosphate of diethyl mercaptosuccinate), maneb (Mn
     ethylenebisdithiocarbamate), Hg compds., metaldehyde, methoxyehlor
     [2,2-bis(p-methoxyphenyl)-1,1,1-trichloroethane], MeBr, MeCl, 2-methyl-4-
     chlorophenoxyacetic acid, CH2Cl2, monuron
     [3-(p-chlorophenyl)-1,1-dimethylurea], 1-naphthyl N-methylcarbamate
     (Sevin), N-1-naphthylphthalamic acid, neburon
     [1-butyl-3(3,4-dichlorophenyl)-1-methylurea], nicotine and its salts,
     PhNO2, 2-nitro-1,1-bis(p-chlorophenyl)butane or -propane or mixture (Dilan),
     octylbicycloheptenedicarboximide, N-octyl sulfoxide of isosafrole,
     o-dichlorobenzene, ovex (p-chlorophenyl p-chlorobenzenesulfonate),
     p-dichlorobenzene, parathion (0,0-di-Et 0-(p-nitrophenyl) thiophosphate,
     pentachlorophenol, AcOOH, phenols, PhHgOAc, phorate [0,0- di-Et
     S-(ethylthiomethyl) phosphorodithioate], phosphamidon
     (2-chloro-2-diethylcarbamoyl-1-methylvinyl di-Me phosphate), P (white or
     yellow), pine oil, piperonyl butoxide, piperonyl cyclonene,
     2-pivaloy1-1,3-indandione (Pival) and its salts, KCNS, pyrethrins,
     quaternary ammonium compds., red squill powder and exts., ronnel
     [0,0-di-Me O(2,4,5-trichlorophenyl) phosphorothioate], rotenone, sabadilla
     powder, selenites and selenates, sesamin, simazine
     [2chloro-4,6-bis(ethylamino)-s-triazine], Na fluoroacetate (1080), Na
     isopropylxanthate, Na o-phenylphenolate, Na trichloroacetate, strychnine
     and its salts, S, terpene polychlorinates (chlorinated mixture of camphene,
     pinene, and related terpenes, containing 65-6% Cl) (Strobane),
     2-(p-tertbutylphenoxy)isopropyl 2-chlorethyl sulfite (Aramite),
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2,4,4',5-tetrachlorodiphenyl sulfone (Tedion), Et4P2O5S2, Et4P2O7 (TEPP), Th compds., thiram (tetramethylthiuram disulfide), thiocyanates, toxaphene (chlorinated camphene containing 67-9% Cl), trichloroacetic acid, N-trichloromethylthiophthalimide (phaltan), 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), warfarin [3-(α-acetonylbenzyl)-4-hydroxycoumarin] and its salts, Zn phosphide, Zn salts, zineb (Zn ethylenebisdithiocarbamate), ziram (Zn dimethyldithiocarbamate). 7773-06-0, Ammonium sulfamate (pesticidal, labeling requirements for) 7773-06-0 CAPLUS Sulfamic acid, ammonium salt (1:1) (CA INDEX NAME)

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■ NH3